ANNUAL SHELLFISH MANAGEMENT REVIEW for the period January 1st to December 31st, 2006

Municipality: Brunswick Date: 02/27/07

The Shellfish Conservation Committee submits the following information in partial fulfillment of its responsibilities under Chapter 7 of the Department of Marine Resources Regulations and the Shellfish Conservation Ordinance of this municipality.

Statement of Management Goals and Implementation Actions

e of each

The goals of shellfish management for this municipality have been: (check only one of pair)
 [X] provide a harvesting opportunity for the maximum number of participants [] maximize individual harvest by minimizing the number of participants [] increase the clam resource through various enhancement activities [X] maintain a sustainable yield through the vigorous use of production controls [] provide for recreational harvesting in preference to commercial harvesting [X] provide for commercial harvesting in preference to recreational harvesting [X] maximize the economic value of the resource by adjusting production [] maintain a constant production to provide a steady but variable income
The following management controls were utilized: (check all that apply)
 [X] limit the number of commercial harvesters [X] limit the number of recreational harvesters [X] restrict times of harvest [X] restrict the areas of harvest [] limit the amount of commercial harvest [X] limit the amount of recreational harvest [] other:
The following management activities were undertaken: (check all that apply)
 [X] predator protection through fencing, netting, trapping and etc. [X] reseeding from high density areas or seeding with hatchery stock [X] flat surveys to determine size distribution and density [] harvester surveys to obtain catch and effort data [] enhance natural seeding through brushing, roughing and etc. [X] establishing conservation areas for flat rotation [] other:

Shellfish Committee/Staff

Municipality: Brunswick

Title	Name	Mailing Address	Telephone
Chair	John Lemont	21 Maple Street, Brunswick , 04011	725-6507
Vice Chair	Charles Vaughn	866 Merepoint Rd., Brunswick, 04011	725-8012
Secretary	Mark Latti	33 Hemlock Rd., Brunswick, 04011	729-1592
Member(s)	Robert Graffam Jr.	42 Pleasant St. #6, Brunswick, 04011	Unlisted
	Matthew MacLeod	149 Jordan Ave., Brunswick, 04011	725-4706
	James Nottingham	29 Tufton St. , Brunswick, 04011	443-5230
	Frederick Wigand	80 Pleasant St., Brunswick, 04011	729-0363
	Raymond Trombley	43 Bay Bridge Rd., Brunswick, 04011	442-0195
Wardens	Daniel Devereaux	28 Federal St., Brunswick, 04011	725-6631
	Matthew Wyman	28 Federal St., Brunswick, 04011	725-6631
WQSpec(s)	Tim Lukas (NRP)	28 Federal St., Brunswick, 04011	725-6639

Committee Meetings

The Shellfish Committee holds regularly scheduled meetings: [X] yes [] no
The following number of meetings was held during the past year: 14
Minutes of meetings are recorded, filed and are available upon request: [X] yes [] no

Conservation Credit

The opportunity to obtain conservation credit is provided: [X] yes [] no The total number of conservation hours needed to obtain credit is 10. Conservation credit is required to obtain a: [X] renewal license

[] new license

Conservation hours are given for:

[X] meeting attendance[X] coastal cleanup[X] brushing[X] committee service[X] surveys[X] predator control

[X] educational activities [X] reseeding [X]

If conservation credit is not provided, the total number of volunteer man-hours documented for management activities during the past year is

Summary of Warden Activities

Hours Patrolled: 1,950
Diggers Checked: 1,205
Warnings Given: 25
Summon Issued: 5
Court Appearances: 1
Convictions: 3

Enforcement of the shellfish management ordinance has been: [x] satisfactory [] unsatisfactory

Enforcement could be [x] more hours patrolled [] better training

improved by: [X] more wardens [X] greater state support [X] better equipment [X] other: Municipal Warden

Association

Municipality: Brunswick

The warden is provided with a written job description: [X] yes [] no

Production Data Collected by the Warden

Month	Avg. Daily Catch/Digger	_	Avg. # of Diggers/Day		Total # of Days Dug		Total Lbs [] or Bu [<i>X</i>]
January	1.0	Х	6	Х	12	=	72
February	1.25	_	8		16		160
March	1.50	_	19		20		570
April	2.0		38		23		1,748
May	2.0		42		25		2,100
June	2.5		44		22		2,420
July	2.0		51		21		2,142
August	2.0		41		19		1,558
September	1.5		39		21		1,228.5
October	3.0		53	<u></u>	22		3,498
November	2.5	_	40		24		2,400
December	3.5		36		16		2,016
					TOTA		19,912.5

Warden(s)	Training Date	Nomination Date
Daniel Devereaux	4/26/2006	1/1/2006
Joel Bruce (reserve)	4/29/2005	1/1/2006
Matthew Wyman	4/28/2006	1/1/2006

Shellfish Conservation Budget

Municipality: Brunswick

License Receipts	Allocation	Sold	Received
Commercial			
Resident	67	67	\$13,400
Nonresident	7	7	\$2,800
Senior Resident	-	-	\$0
Senior Nonresident	-	-	\$0
Junior/Student Resident	10	10	\$500
Junior/Student Nonresident	1	1	\$100
Other:	-	-	\$0
Recreational			
Resident	NL	119	\$1,185
Nonresident	10%	11	\$330
Daily/Weekly/Monthly Res.	-	-	\$0
Daily/Weekly/Monthly Nonres.	-	-	\$0
Senior Resident	-	-	\$0
Senior Nonresident	-	-	\$0
Junior/Student Resident	-	-	\$0
Junior/Student Nonresident	-	-	\$0
Other:	-	-	\$0
SUBTOTAL (1)	\$18315		
Receipts Independent of License Fees	}		
Shellfish Conservation Account Carr	ied Forward		\$0
Funds Raised for Warden			\$61,080
Funds Raised for Management Activ	rities		\$21,514
Fines			\$1,204
Other			\$12,500
SUBTOTAL (2)			\$96,298
TOTAL Receipts (1+2)			\$114,613
Disbursements			
Warden Salary			\$59,645
Mileage			\$3,500
Clothing			\$2,300
Equipment			\$5,750
Training			\$3,575
SUBTOTAL (3)			\$74,770
Advertising			\$800
Supplies			\$4,000
Surveys		\$200	
Seeding		\$150	
Miscellaneous		\$1,000	
SUBTOTAL (4)			\$6,150
TOTAL Disbursements (3+4)	\$80,920		

Management Activities by Flat

Municipality: Brunswick

The following is a list of clam harvest areas in which management activities were conducted during the past year and the <u>dates</u> when they occurred. [] No activities were conducted.

Harvest Area	Clam Survey	Seed/ Reseed	Predator Control	Brushing/ Roughing	Conservation Closure
Barnes Landing	8/13				
Big Bull Pen	11/12				
Bunganuc	12/14				
Buttermilk (Gurnet)	12/13				10/18
Coombs Island	11/12				
Harpswell Cove	11/28				
Little Bull Pen	10/17				
Maquit Bay	12/15	6/18		6/18	
Middle Bay	12/17				
New Meadows	10/04				
Princess Point	10/18				
Smith Cove	12/17				
Thomas Point Beach	10/01	4/8	4/8	4/8	

Proposed Management Controls

he following management controls will be utilized for the coming year: (check all that apply)
[X] limit the number of commercial harvesters
[X] limit the number of recreational harvesters
[X] restrict times of harvest
[X] restrict the areas of harvest
[] limit the amount of commercial harvest
[X] limit the amount of recreational harvest
[] other:

Municipality: <u>Brunswick</u>

Proposed Shellfish Licenses

<u>Number</u>	Cost @
51	\$200
6	\$200
-	-
-	-
-	-
-	-
-	-
100	<i>\$15</i>
10	
-	-
-	-
-	-
-	-
-	-
-	-
-	-
	51 6 - - - - - 100

License number determina	ation is based upon:	[X] calculation using survey data[] survey data as a guide[] harvester input[] need/demand
The above numbers are:		
	• • •	tual numbers to be determined later or will be submitted to DMR

Proposed Management Activities

Municipality: Brunswick

The following management apply)	activities will be und	dertaken during the o	coming year: (check all that
[X] reseeding from h [X] flat surveys to de [X] harvester survey [] enhance natural	on through fencing, raigh density areas or etermine size distributes to obtain catch and seeding through bruiservation areas for flathoreline Surveys	with hatchery stock tion and density d effort data shing, roughing and	
In order to implement these apply)	e management activi	ties the committee v	vill utilize: (check all that
[X] harvesters veste[] harvester volunte[] paid harvesters[X] municipal employ[X] paid consultants[X] other:		credit	
To provide a forum for hard meet:	ester input in manaç	gement planning, the	e shellfish committee plans to
	[] annually [] biannually [] quarterly [] bimonthly [<i>X</i>] monthly	,	
Meeting notification for oth	er than regularly sch	eduled meetings is t	oy:
[X] mailing [] pho	one call [X] posting	[] newspaper	[X] word of mouth
In order to keep the DMR i committee will:	nformed and to solic	it advice on manage	ment activities, the shellfish
[] req [<i>x</i>] inv	uest the area biologi uest the area biologi ite the area biologist te the area biologist	st to participate in or to attend all meeting	nly specific meetings gs

Proposed Activities by Flat

Municipality: Brunswick

The following is a list of clam harvest areas in which management activities are planned for the coming year and the probable dates the activities would occur.

[] No activities are planned. [] No specific activities are planned as yet.

Harvest Area	Clam Survey	Seed/ Reseed	Predator Control	Brushing/ Roughing	Conservation Closure
Barnes Landing	8/3				
Big Bull Pen	8/5				
Bunganuc	8/19				
Buttermilk (Gurnet)	8/21				
Coombs Island	8/24				5/20
Harpswell Cove	8/25				
Little Bull Pen	9/3				
Maquoit Bay	9/4				
MIddle Bay	9/12				
New Meadows	9/20				4/15
Princess Point	10/8				
Smith Cove	10/9				
Thomas Point Beach	10/11	5/20			5/20

Summary of Clam Flat Survey Data

Municipality: Brunswick

The following is a list of surveys conducted during the past year. Survey data should be attached if not previously provided to DMR. [] No surveys were conducted.

Clam Flat	Survey Date	Acreage	Density (bu/a)	Standing Crop (bu.)	%>2" by vol.
Barnes landing	8/13	5	15	75	39
Big Bull Pen	11/12	33	34.5	1,136	62
Bunganuc	12/14	20	75.2	1,503	71
Buttermilk (Gurnet)	12/13	12	44.8	537	79
Coombs Island	11/12	10	15.3	153	39
Harpswell Cove	11/28	15	28.9	433	55
Little Bull Pen	10/17	5	18.1	94	59
Maquoit Bay	12/15	60	28.9	4,395	73
Middle Bay	12/17	153	18.1	12,272	57
New Meadows	10/04	7	61.3	429	84
Princess Point	10/18	17	44.1	750	55
Smith Cove	12/17	5	21.6	108	61
Thomas Point Beach	10/01	25	34.4	862	52

The flats surveyed represent approximately <u>100</u>% of the total productive flats.

Summary of Transplant Activities

Municipality: Brunswick

The following seeding / reseeding activities were conducted during the past year.

[] No seeding / reseeding activities were conducted.

	Event 1	Event 2	Event 3	Event 4
Date	4/8/2006	6/18/2006		
Supervisor	Devereaux	Devereux		
Crew #	21	19		
Amount	6 bu	21.75 bu		
Mean Size (in.)	0.50	1.25		
Size Range (in.)	0.10 -1.5	0.25 - 2.50		
Source				
Source Flat	Thomas Point Inner	Bunganuc		
Receiv. Flat	Thomas Point Outer	Maquoit Bay		
Netted (y/n)	у	n		
Closed until	n/a	n/a		

	Event 5	Event 6	Event 7	Event 8
Date				
Supervisor				
Crew #				
Amount				
Mean Size				
Size Range				
Source				
Source Flat				
Receiv. Flat				
Netted (y/n)				
Closed until				

Summary of Conservation Closures

Municipality: Brunswick

The following is a list of conservation closures implemented or in effect during the past year. (This table is for areas normally open.) [] No conservation areas were closed.

Conservation Area	Acreage	Closing Date	Opening Date	Days Closed*	Reason
Town Wide Flats	299	6/16	Indefinate	58	Sustainability

*during 2006

Summary of Conservation Openings

The following is a list of conservation openings implemented or in effect during the past year. (This table is for areas normally closed.) [] No conservation areas were opened.

Conservation Area	Acreage	Opening Date	Closing Date	Days Open*	Reason
Gurnet	5	10/16	Indefinate	22	Sustainablity
L	•				* 1 ' 0000

*during 2006

Additional Activities

Municipality: Brunswick

Spatfall Enhancement

The following is a list of activities to promote clam settlement such as brushing, flat roughing, tenting or netting. [] No such activities were conducted.

Location	Date	Description
Thomas Point Beach	4/8	2 acres roughed and brushed prepared for recieving broadcast seed
Maquoit Bay	6/18	1/2 acres roughed and brushed prepared for recieving seed. Larger clams hand planted.

Predator Protection

The following is a list of activities to protect clams from predators such as trapping, netting and hand collecting. [] No such activities were conducted.

Location	Date	Description
Thomas Point Beach	4/8	Area was netted for predator control after seeding, netting was left on flats for 1 week, then removed

Other Activities

The following is a list of other activities that benefit, directly or indirectly, the management program such as educational projects, participation in regional councils and shoreline cleanup.

[] No such activities were conducted.

Location	Date	Description
Merepoint	6/1-11/15	Shoreline surveys were conducted over summer months by BMRC personel to find pollution sources.
Gurnet	9/11	Shoreline Survey conducted to open Gurnet area to harvesting.
New Meadows coastal clean up	10/1	5 mile clean up consisting of 347 lbs of rubbish removed by 12 harvesters.
Brunswick Town Hall	10/4	Presntation to Longfellow School 3rd & 4th graders the importance of clam management.
Harpswell Island School	5/23	Presentation of intertidal species and local clam management to grade school children.
Regional Meetings	9/14	Held regional meetings to address local WQ classification problems.